

Day of Year

Write a program that input number of day, month, and year (Buddhist calendar) and show a day of year number .

Input

The first line is a number of day .

The second line is a number of month .

The third line is a number of year (Buddhist calender) .

Output

A day of year number as integer .

Example

Input (from keyboard)	Output (on screen)
1 1 2559	1
31 12 2559	366
5 12 2560	339
31 12 2560	365

Hint : Buddhist calender = AD + 543